

## Asst. Prof. MUSTAFA İSTANBULLU

### Personal Information

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### Education Information

Doctorate, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2013 - 2020

Post Graduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Biomedical Engineering Department, Turkey 2010 - 2013

Under Graduate, Erciyes University, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği , Turkey 2006 - 2010

### Dissertations

Doctorate, Design and Simulation of A Carbon Nanotube Hybridized Field Effect Transistor Biopotential Sensor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2020

Post Graduate, Early Diagnosis of Osteoporosis Using Artificial Neural Network and Support Vector Machines, Istanbul Technical University, Biyomedikal Müh., 2013

### Research Areas

Biomedical Engineering, Bioinstrumentation and Microelectromechanical Systems (MEMS), Electrical and Electronics Engineering, Electronic, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Circuit Theory, Sensing Devices and Transducers, Electronic Circuits, Nanotechnology, Semiconducting Materials and Devices

### Academic Titles / Tasks

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2021 - Continues

Research Assistant, Cukurova University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2012 - 2021

### Academic and Administrative Experience

Deputy Head of Department, Cukurova University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2021 - Continues

Researcher, Istanbul Aydın University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 2011 - 2012

### Courses

Elektronik 2, Under Graduate, 2020 - 2021

Tasarım, Under Graduate, 2020 - 2021

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **An ANN-Based Single Calibration Impedance Measurement System for Skin Impedance Range**  
İstanbulu M., Avcı M.  
IEEE Sensors Journal, vol.21, no.3, pp.3776-3783, 2021 (Journal Indexed in SCI Expanded)
- II. **Novel multiwalled carbon nanotube (MWCNT) modified metal oxide semiconductor field effect transistor (MOSFET) based electrode for electrophysiological measurements on human skin**  
İSTANBULLU M., AVCI M.  
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.47, no.5, pp.545-563, 2019 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Evaluation of CNT/MOSFET Based Active Electrode with ECG, EMG, and EEG Signals**  
İstanbulu M., Avcı M.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.35, no.3, pp.699-709, 2020 (National Refreed University Journal)
- II. **Low Voltage Two Stage CMOS Operational Amplifier Design for Biomedical Applications**  
İstanbulu M., Avcı M.  
International Journal of Management and Applied Science, vol.6, no.7, pp.75-81, 2020 (Refereed Journals of Other Institutions)
- III. **Authentication of Ottoman Art Calligraphers**  
UCAN O. N., İSTANBULLU M., KILINC N., KALA A.  
INTERNATIONAL JOURNAL OF ELECTRONICS; MECHANICAL and MECHATRONICS ENGINEERING, no.2, pp.215-224, 2012 (International Refereed University Journal)
- IV. **Traffic Sign Recognition With Video Processing Technique**  
AYDIN M., CALIK E., İSTANBULLU M.  
INTERNATIONAL JOURNAL OF ELECTRONICS; MECHANICAL and MECHATRONICS ENGINEERING, vol.2, no.2, pp.190-194, 2012 (International Refereed University Journal)
- V. **Elektrik Dağıtım Sistemlerinde Enerji Kalitesi Sistem Bozulmaları ve Giderme Teknikleri**  
SAYGIN H., İSTANBULLU M., UCAN O. N.  
TSE, Standard Ekonomik ve Teknik Dergi, no.589, pp.43-45, 2011 (National Non-Refereed Journal)

## Books & Book Chapters

- I. **Mikroelektronik Laboratuvar Uygulamaları 2**  
İstanbulu M., Avcı M.  
Karahan Kitabevi Yayınları, Adana, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **A PROGRAMMABLE SYSTEM ON CHIP IMPLEMENTATION OF SECOND GENERATION CURRENT CONVEYOR**  
İstanbulu M., Avcı M.  
4th INTERNATIONAL CONGRESS ON ENGINEERING AND TECHNOLOGY MANAGEMENT, İstanbul, Turkey, 13 - 14 November 2020, pp.32-38
- II. **A Novel Logarithmic Amplifier with Second Generation Current Conveyors**

İstanbulu M., Avcı M.

4th International Conference on Engineering Technologies, Konya, Turkey, 19 - 21 November 2020, pp.1

**III. MINTERM AND MAXTERM BASED FUCTIONAL ANALYSIS METHOD FOR LOGIC CIRCUITS**

İstanbulu M., Avcı M.

4 TH INTERNATIONAL CONGRESS ON ENGINEERING AND TECHNOLOGY MANAGEMENT, İstanbul, Turkey, 13 - 14 November 2020, pp.25-31

**IV. Low Voltage Two Stage CMOS Operational Amplifier Design for Biomedical Applications**

İstanbulu M., Avcı M.

656th International Conference On Electrical and Electronics Engineering (ICEEE), Hamburg, Germany, 4 - 05 April 2020, pp.1-7

**V. Microfabrication Process Design of Low Voltage Depletion Type N-MOSFET for Biopotential Sensing**

İstanbulu M., Avcı M.

5th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2018),

Nevşehir, Turkey, 04 October 2018 - 06 October 2019, pp.117-121

**VI. Early diagnosis of osteoporosis using artificial neural networks and support vector machines Yapay sinir ağırları ve destek vektör makineleri kullanarak kemik erimesi hastalığının erken teşhisi**

İstanbulu M., Aydın M., Benveniste R., Uçan O. N. , JENNANE R.

2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012

**VII. Yapay Sinir Ağları ve Destek Vektör Makineleri Kullanarak Kemik Erimesi Hastalığının Erken Teşhisi**

İSTANBULLU M., AYDIN M., BENVENİSTE R., UÇAN O. N.

SİU 2012, Turkey, 18 - 20 April 2012

## Supported Projects

AVCI M., GÜVEN M., BAYSAL C. V. , AYDIN A., İSTANBULLU M., ÖDEMİŞ E., KESKİNOĞLU C., Project Supported by Higher Education Institutions, BİYOMEDİKAL MÜHENDİSLİĞİ BÖLÜMÜ LİSANS ÖĞRENCİ LABORATUVARLARININ GENİŞLETİLMESİ VE GELİŞTİRİLMESİ, 2018 - 2019

## Activities in Scientific Journals

International Journal of Sensors and Sensor Networks (IJSSN), Evaluation Committee Member, 2020 - Continues